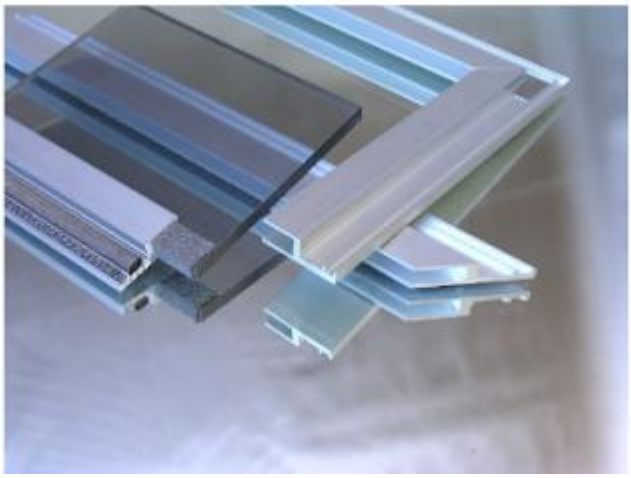
EMI Shielding Plexy Screen – Technical Application Sheet

Introduction to EMI Shielding Plexy Screen

Electromagnetic Interference (EMI) represents a critical challenge in high-density electronic and industrial environments. The EMI Shielding Plexy Screen is a transparent EMC shielding solution designed to protect sensitive electronic equipment while preserving optical visibility. It is comm only integrated into EMC shielding systems that also include EMC shielding gaskets and conductive gasket solutions.

Technical Construction and Materials

The **EMI Shielding Plexy Screen** is manufactured using high-quality plexiglass or polycarbonate laminated with fine conductive wire mesh. Typical conductive materials include copper, stainless
steel, or bronze meshes. The lamination process ensures mechanical durability, optical clarity, and stable electrical conductivity.



EMI / EMC Performance

Typical shielding effectiveness ranges from 50 dB to 90 dB across frequencies from 10 MHz up t o 10 GHz, depending on mesh type, aperture size, and panel thickness. The solution supports compliance with IEC, EN, CISPR, and MIL EMC standards and is fully compatible with **EMI shielding gaskets** and conductive gasket systems.

Integration with EMC Shielding Systems

For complete electromagnetic compatibility, EMI Shielding Plexy Screens are typically combined with: - EMC shielding gaskets for enclosure sealing - EMI shielding gaskets for broadband attenuation - Conductive gaskets for low-
impedance grounding - Conductive cloths and conductive non woven materials for internal shielding layers This system-level approach ensures continuous shielding effectiveness across panels, doors, and transparent interfaces.

Industrial Applications

Applications include control rooms, EMC test chambers, laboratories, electronic enclosures, medical diagnostic equipment, aerospace and defence systems, and telecommunications infrastructure.

Advantages

Key advantages include transparent EMI shielding, high mechanical resistance, customizable dimensions, compatibility with conductive gasket solutions, long-term performance stability, and suitability for international OEM projects.

Conclusion

This document is designed as a technical reference and SEO-oriented application sheet reinforcing keyword relevance for EMC shielding gaskets, EMI shielding gaskets, conductive gaskets,
conductive cloths, and conductive non woven materials. It is intended for monthly SEO optimiz ation activities managed by Fanedoor India.